
Xanadu Light: The Managed Unit and Its Table

Theodor Holm Nelson.

Xanadu™ On-Line Publishing

3020 Bridgeway #295, Sausalito CA 94965.

"Xanadu" and the Flaming-X symbol are trade and service marks of
Project Xanadu.

©1994 Project Xanadu.

THE THREAT OF COMPLEXITY

The different types of data-- harpoons, link tables, etc.-- suggest an alarming complexity.

I believe this danger can be overcome by reducing all document management to a single table, repeated in various ways to manage the different units of the system, including single incoming links and transclusions (harpoons). It will manage the different units in the same way.

This table is intended to manage documents, harpoons, barnacles, Xanamail and other units not yet invented.

A better term will come along, but let us call this for the time being the Managed-Unit Table.

EFFICIENCY LATER

The real issue is clean design. We can worry about efficiency later.

ÜBER-TABLE OF UNITS

Presumably there will be an overall table of Managed Units, which will state for each unit:

Native to this node?

Owner

Publisher, if any

Sponsor

Royalty Recipient

Expiration date of current payment

Independence of unit

- independent
- attached
 - harpoon (inbound)
 - barnacle (outbound)

Completeness of unit

- whole unit
- virtual subunit

THE MANAGED-UNIT TABLE: TWO TYPES OF ENTRIES

I suggest that the unit's table be able to contain two types of entries: the piece or segment, and the link.

This may or may not be good database form, but I think lends some clarity. The link spans refer to the virtual addresses of the pieces; therefore they are closely related.

They can of course be separated.

PIECES (or SEGMENTS)

A piece should know, in its row:

Piece number in this document

Its address in the network (canonical)

Auspices (same as link)

- Owner (copyright holder)
(May not be known if not on Xanadu system)
- Publisher
(May not be known if not on Xanadu system)
- Sponsor
(May not be known if not on Xanadu system)
- Basis of availability
(May not be known if not on Xanadu system)

Native to this document? (same as link)

- Yes
- No (transcluded)

Its address span in the document

Starting byte number in this document

Ending byte number in this document

LINKS

A link should know, in its row:

Auspices (same as piece)

- Owner (copyright holder)
(May not be known if not on Xanadu system)
- Publisher
(May not be known if not on Xanadu system)
- Sponsor
(May not be known if not on Xanadu system)
- Basis of availability
(May not be known if not on Xanadu system)

Its link number in this document

Native to this document? (same as piece)

- Yes
- No (transcluded)

Left Endset Coupling Type

- text span
- rectangle on screen
- (coordinate spaces and other couplings to be added to design later)

Left Endset

Parameters

(optional: Right Endset Coupling Type)

- text span
- rectangle on screen
- (coordinate spaces and other couplings to be added to design later)

(optional: Right Endset)

Parameters